# USER MANUAL

**HD-CVI PTZ Speed Dome**

**Model:**
**SCC-242KZNA**

Version 1.0sfi/0715/engl/A5

Dear customer,

Thank you for purchasing a high quality SANTEC device.

We recommend that you read this manual thoroughly before operating your new system for the first time. Please follow all instructions and observe the warnings contained in this manual.

Please contact your local dealer or SANTEC directly if you have any questions or if you wish to claim for a service or warranty.

You will find further information on our website:
www.santec-video.com

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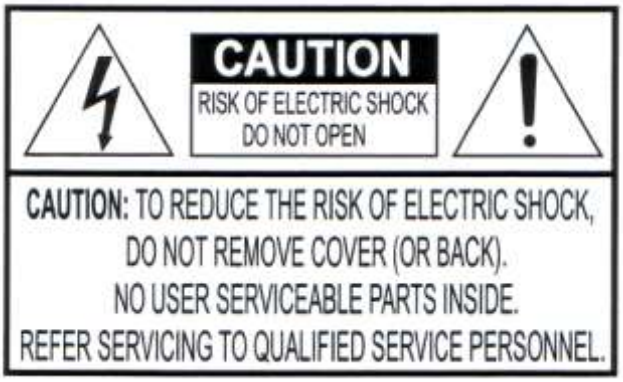
## Safety precautions

### Caution


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

### Description of symbols

**Danger:** This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to a person.

**Warning:** This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### CE compliance

This appliance complies with the CE guidelines.
If you require an EC Declaration of Conformity for this device, please send a request to:
CE@santec-video.com

Attention:
Any changes or modifications to this appliance which have not been explicitly approved of by the respective regulatory authority, may lead to a prohibition of usage of this appliance.

### Important: Legal note

Monitoring, recording and storage of video surveillance data (images, sound), is subject to strict legal regulations. Please respect the Data Privacy Act which applies to your country.

## Safety instructions

- Before operating the appliance, please read this manual carefully and retain it for further reference.
- Before cleaning the appliance, it has to be switched off and unplugged from the power outlet. Wipe the appliance with a soft damp cloth.
  Do not use harsh cleansers or aerosols for cleaning. The type label may not be replaced.
- Do not use attachments unless recommended by the manufacturer as they may affect the functionality of the appliance and result in the risk of fire, electric shock or injury.
- Never install the appliance in areas exposed to water or other liquids.
- The appliance has to be installed in a safe and stable location according to the instructions of the manufacturer. Care should be used when moving heavy equipment. Quick stops, excessive force, and uneven surfaces may cause the appliance to fall causing serious injury to persons and damage to objects.
- Openings in the appliance, if any, are provided for ventilation to ensure reliable operation of the appliance and to protect if from overheating. These openings must not be covered or blocked. Please make sure that the appliance does not overheat.
- The appliance should only be operated from the type of power source indicated on the marking label. If you are not sure of the type of power supplied at the installation location, please contact your local dealer.
- An appliance which is powered through a polarized plug (a plug with one blade wider than the other) will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug into the outlet, try reversing the plug. Do not defeat the safety purpose of the polarized plug.
- If the appliance is powered through a grounding-type plug, the plug will only fit into a grounding-type power outlet. This is a safety feature. If your outlet does not have the grounding plug receptacle, contact your local electrician.
- Route power cords and cables in a manner to protect them from damage by being walked on or pinched by items places upon or against them.
- For protection of the appliance during a lightning storm or when it is left unattended and unused for a longer period, unplug the appliance from the wall outlet. Disconnect any antennas or cable systems that may be connected to the appliance. This will prevent damage to the appliance due to lightning or power-line surges.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- Never insert items into the openings of the appliance. They may touch parts under electric current which may cause an electric shock.
- Never pour any liquids over the appliance.
- In case of any operating interruption or a complete operating failure please switch off the appliance and disconnect it from the wall outlet. Never attempt to service or repair the appliance yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- When replacement parts are required, be sure that the service technician uses replacements parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

- Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to verify that the appliance is in proper operating condition.
- The appliance should only be installed by qualified service personnel and has to comply with local specifications and regulations.
- Never point the camera at an object with a high degree of luminance. Bright vertical or horizontal lines can result in a distortion (outshine) of the entire image on the monitor. This artifact is not an error but a particularity of semiconductor CCDs when they are directly exposed to a powerful light source.
- If the camera is operated in locations with extremely differing light conditions, the aperture has to be adapted.
- Please respect the local legal regulations on waste if you need to dispose of discarded appliances.

This symbol means that electrical appliances need to be disposed of properly and not simply with unsorted household refuse. Please respect local regulations on waste disposal.

## About this user manual

This manual aims at assisting the user on how to operate the described cameras.
This manual is subject to rigid quality control. However, no guarantee can be given that mistakes are not present. We reserve the right to make changes to the manual without prior notice.
Before operating the appliance, please read this manual carefully and retain it for further reference.
Verify that all appliance items are included in the delivery. Should items be missing, do not operate the appliance and contact your local dealer.
Never attempt to repair the appliance yourself. This should only be done by qualified service personnel.
Improper handling of the appliance will invalidate the warranty.

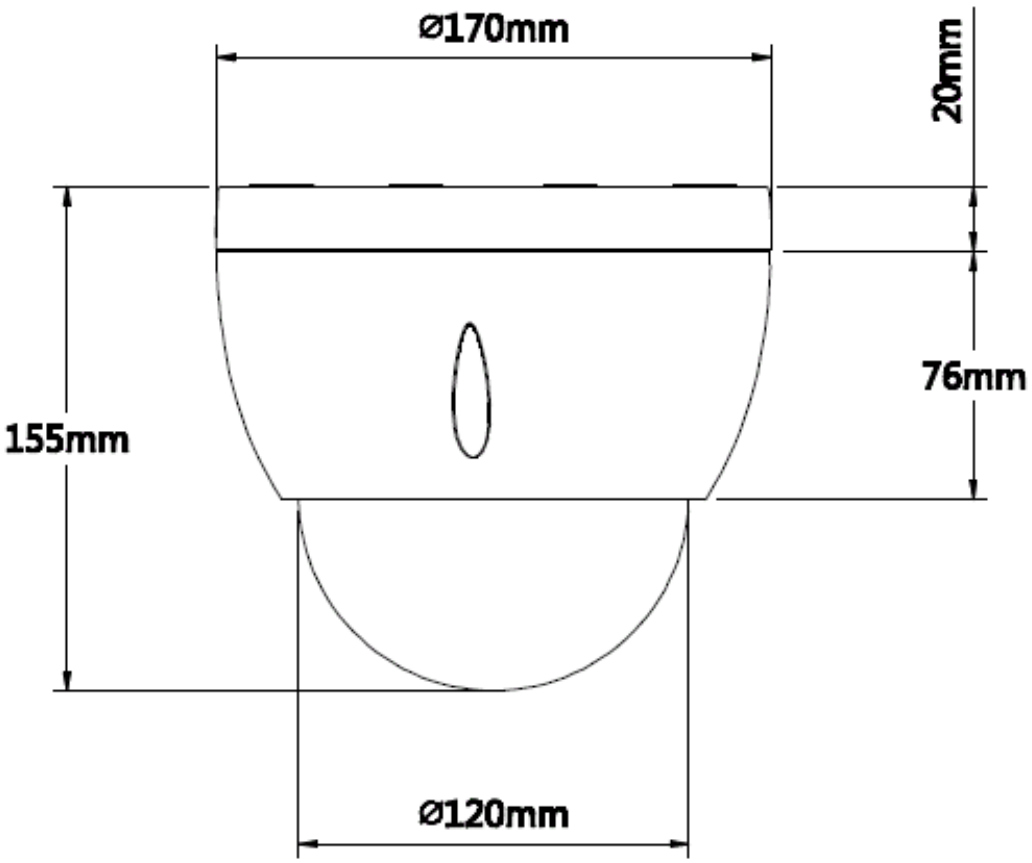
Subject to technical changes without prior notice. Errors excepted

## Part I: Camera description, technical specifications, installation

### 1. Items included in the delivery

1x Camera SCC-242KZNA
1x Allen wrench
1x Mounting drawing paper
1x Quick installation guide and security notes

### 2. Technical drawing




All dimensions in mm. Drawing not true to scale.
Subject to technical changes. Errors excepted.

## 3. Connections

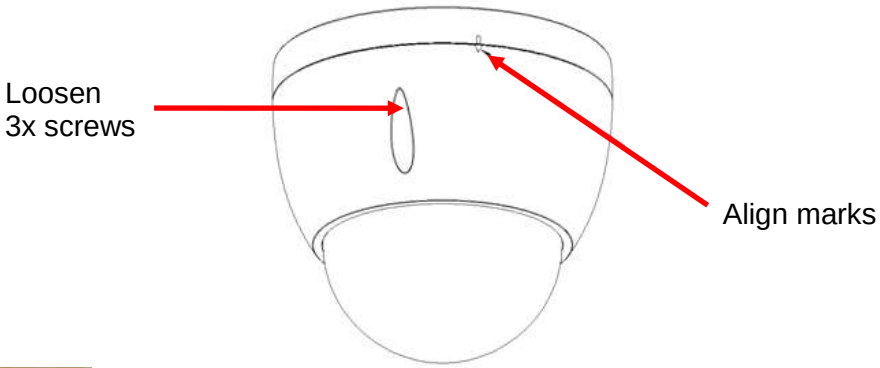
The dome camera comes with the following connection options (open cable ends):

| Connection | | Colour |
|---|---|---|
| Power | 24 V AC | Red |
| | 24 V AC | Black |
| | Earth | Yellow-green |
| Audio | Audio In | White |
| | GND | Black |
| RS-485 | A+ | Yellow |
| | B- | Orange |
| Alarm | Alarm_IN1 | Red |
| | Alarm_IN2 | Brown |
| | Alarm_COM | White |
| | Alarm_OUT | Blue |
| | GND | Black |
| Video Out | Video output | with heat shrink tube * |

* Heat shrink tube:
The video connector is covered by a heat shrink tube. Once you have connected the dome camera, you may use a heating device (e.g. a hot air gun) to heat the tube to shrink-fit it to the cable.

## 4. How to open and close the housing

To open the housing, please loosen the screws and pull-off the housing cover of the housing bottom. To close the housing, please ensure that the marks on the housing bottom and the one on the housing cover are aligned. Then screw the housing tight.



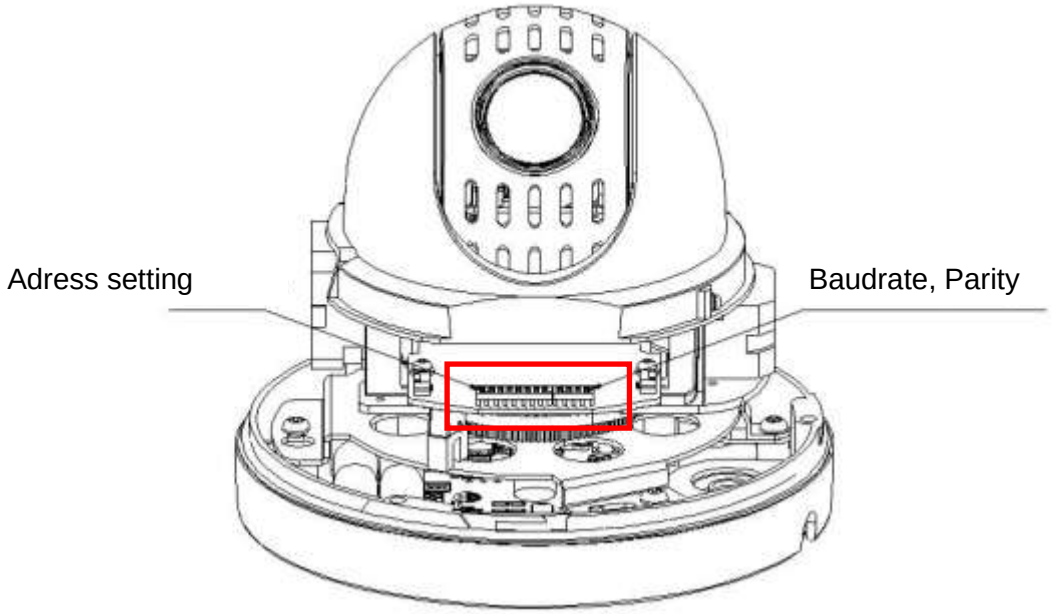
**Notes:**

- **Transport securing ring:**
  Prior to the installation, please open the dome housing and remove the white foamed ring which served as transport security.
- Do not remove the little sachet with dry granulate.

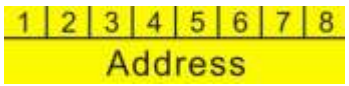
## 5. Dip-switch settings *(only for RS-485 connection)*

*Note:*
*Dip-switch settings are only relevant if you connect an external device via RS-485 to the camera (e.g. a control keyboard). If you don't use the RS-485 connection, the Dip-switches have no function.*

Once you removed the housing cover as described in chapter 3, you will have access to the the Dip-switches.

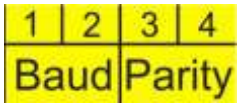



**Adress setting:**




| Address | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| 1 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 1 | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 2 | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 3 | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 4 | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| 5 | ON | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| 6 | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF |
| 7 | ON | ON | ON | OFF | OFF | OFF | OFF | OFF |
| 8 | OFF | OFF | OFF | ON | OFF | OFF | OFF | OFF |
| …… | …… | | | | | | | |
| 254 | OFF | ON | ON | ON | ON | ON | ON | ON |
| 255 | ON | ON | ON | ON | ON | ON | ON | ON |

**Baudrate and parity:**




Setting the Baudrate (switches 1 and 2):

| 1 | 2 | Baudrate |
|---|---|---|
| OFF | OFF | 9600bps |
| ON | ON | 4800bps |
| OFF | ON | 2400bps |
| ON | ON | 1200bps |

Einstellung der Parität (Schalter 3 und 4):

| 3 | 4 | Parity |
|---|---|---|
| OFF | OFF | NONE |
| EIN | OFF | EVEN |
| OFF | ON | ODD |
| ON | ON | EVEN |

The following default settings apply (factory default):

Address: 1
Baudrate: 9600
Parity: None

If you change the Dip-switch settings, you need to reboot the camera.

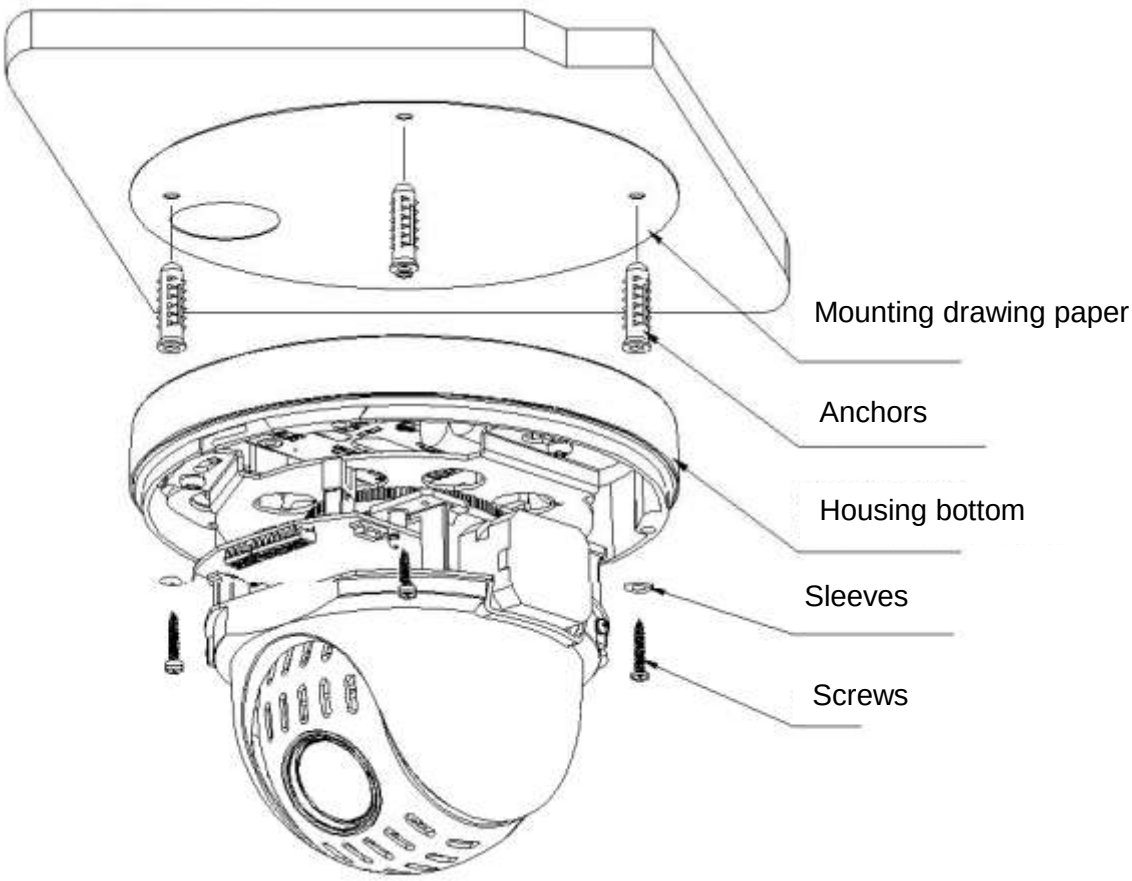
Please ensure that the settings (address, Baudrate, parity) of the device connected via RS-485 align with the camera.

## 6. Installation

The dome camera can be ceiling or wall mounted. Please ensure that the surface is solid enough to carry the weight of the dome camera. For safety reasons, it is recommended to ensure that the surface can carry 8x the camera weight.

If you need to set the Dip-switches, please do so before the installation (see chapter 4).

- Remove the housing cover (see chapter 4).
- Use the supplied mounting drawing paper to position the drilling holes. Use the anchors, sleeves and screws to mount the housing bottom on the ceiling/wall.
- The cable containing the various connections can either be led through the housing's side or its bottom (additional drilling hole required).
- Put the housing cover back on (see chapter 4).



## 7. Self-diagnosis

If you run the dome camera for the first time of if you have reset it to factory default settings, the camera will perform a self-diagnosis test. The following information will be displayed for approx. 4 minutes:

| | |
|---|---|
| ADDR | : 001-H |
| BR | : 9600 |
| PARITY | : None |
| VERSION | : V1.00.0.R |

The self-diagnosis information will disappear if the dome receives the first command.

## 8. Technical specifications

| Model | SCC-242KZNA | |
|---|---|---|
| Camera type | HD-CVI PTZ dome camera | |
| Installation | and outdoors | |
| Video norm | PAL / NTSC | |
| Image sensor | 1/2.8” 2 Megapixel Exmor CMOS | |
| Effective pixel | 1944 (H)x 1092 (V) | |
| Resolution | 1080p, 720p | |
| Frame rate | 25fps@1080p / 50fps@720p | |
| SN ratio | > 55 dB | |
| Lens | 5.1 – 61.2 mm, F1.6 – F3.0 | |
| Zoom | 12x optical, 16x digital | |
| Angle of view | 51.3° - 4.64°(horizontal) | |
| Pan | Range | 0° - 360° |
| | Speed | 0.1°/s – 300°/s |
| Tilt | Range | -2° - 90° |
| | Speed | 0.1°/s – 120°/s |
| Preset | Number | 300 |
| | Speed | 300°/s (Pan)<br>200°/s (Tilt) |
| PTZ | 300 Preset, 5 Pattern, 8 Tour, 5 Scan, Auto Pan | |
| Illumination | 0.05 Lux, F1.6 (Colour)<br>0.005 Lux, F1.6 (Black/white) | |
| Noise reduction | 2D NR, 3D NR | |
| White balance | Auto, ATW, Indoor, Outdoor, Manual | |
| Backlight compensation | BLC, HLC, DWDR (Digital Wide Dynamic Range) | |
| Privacy masking zones | 24 | |
| Video output | HD-CVI | |
| Classification | IP66, IK10 | |
| OSD menu | English only | |
| IR LEDs | No | |
| Voltage | 24 V DC ±10% | |
| Power consumption | Max. 12 watt | |
| Operating temperature | -10° to +60° C | |
| Storage temperature | 0° to +60° C | |
| Dimensions | 170 x 155 mm | |
| Weight | approx. 1.8 kg | |
| Housing color | White | |
| Certification | CE | |
| Recommended power adapter | VCA-12V-1.5ASA | |
| Recommended recorder | SCVR-2411K, SCVR-2411TK, SCVR-2812TK | |
| Recommended control keyoard | KSC-3505 | |

Subject to technical changes. Errors excepted.

## Part II: Camera configurations via the connected recorder

### 1. General

You cannot make any settings or configurations at the camera directly (except for the Dip-switches; see part I chapter 4). All camera configurations are made using the connected HD-CVI recorder.

Recommended SANTEC HD-CVI recorder models:

- SCVR-2411K
- SCVR-2411TK
- SCVR-2812TK

Connect the dome camera, a mouse and a monitor to the recorder.

Note:
The settings described in this manual are based on using a SANTEC HD-CVI recorder, model SCVR-2411K. It is exemplary for the other SANTEC recorders models.

### 2. Calling-up the PTZ control menu

Login to the recorder using your user name and password.

If you are in live view mode (either in multi-split mode or in full screen mode), right-click to call-up the quick menu.
Use the menu item “Pan/Tilt/Zoom” to call-up the PTZ control menu of the dome camera.
Left-click into the live view to close the quick menu again.

If you click on “Pan/Tilt/Zoom”, the following PTZ control menu:

**Speed:**
Define the speed for the PTZ movements (1-8). Click on the speed number to bring-up the virtual keyboard. Enter the desired speed. Alternatively, you can set the speed using the OSD menu (see chapter 4.4):

*Function Setting* ➔ *Auto Pan* ➔ *Pan Speed*

**Zoom, Focus, Iris:**
Use the plus/minus buttons to adjust the zoom, focus and iris.

**PTZ direction:**
Use the 8 direction arrows to move the dome into the desired direction.

**Select zoom area:**
In the center of the direction arrows, you will find a button to select a zoom area. Click on this center button. Then use the mouse to draw an area into the image which you would like to zoom in. Release the mouse button and the selected area will be zoomed in at max. 16x speed. The smaller the selected area, the higher the zoom speed.
To return to the normal view, there are 2 options:

1. In the PTZ control menu, click on the minus zoom button.
2. Use the mouse wheel.

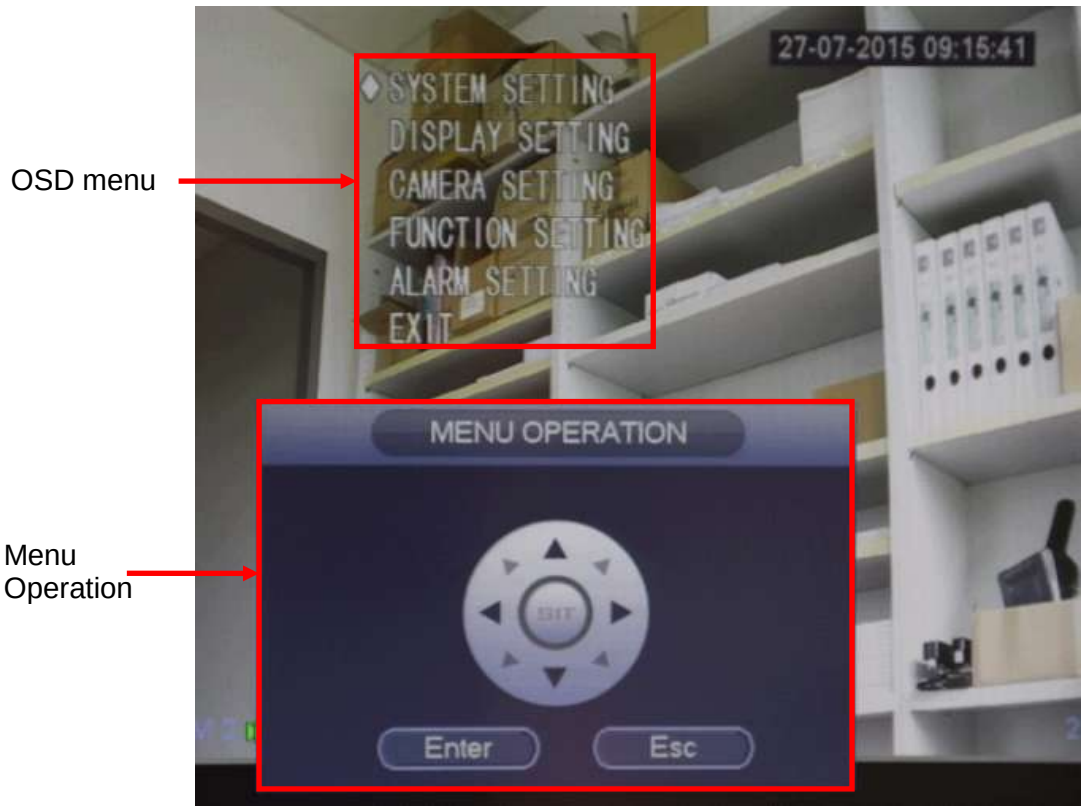
## 3. PTZ functions using the PTZ control menu

### 3.1 Calling-up the OSD menu of the PTZ dome camera

1. Call-up the PTZ control menu as described in chapter 2.
2. In the PTZ control menu, click on the arrow on the right hand side to extend the menu:

3. Click on the symbol „Enter menu“ to call-up the OSD menu of the dome camera.

4. A window called „Menu Operation“ as well as the OSD menu are displayed in the video image.



**OSD menu settings using the „Menu Operation“ window:**
Use the displayed „Menu Operation“ to navigate through the OSD menu by clicking on the arrows.

Note:
You cannot mouse-click directly on a OSD menu item but you have to use the arrows in the „Menu Operation“ window.

Arrows up/down:
Scroll up/down the OSD menu to select a menu item. The selected item is marked with a diamond icon.

Enter:
Click „Enter“ to confirm the selection of an item. A sub-menu is opened (if available).

Arrows right/left:
Use these arrows to adjust values.

ESC:
Click „ESC“ to close (hide) the OSD menu. The “Menu Operation” window is still displayed. To close the “Menu Operation” window as well, right-click into the video image.

## 3.2. PTZ functions using the OSD menu

Navigate through the OSD menu by using the „Menu Operation“ window (see chapter 2).

You can define how long the OSD menu is to be displayed on the screen. See chapter 4.4:
*Function Setting ➔ Next Page ➔ Menu Idle*

The OSD menu is currently only available in English.
It is structured as follows:

Main menu:
1. System Setting
2. Display Setting
3. Camera Setting
4. Function Setting
5. Alarm Setting
6. Exit

### 3.2.1 System Setting

Use the up/down arrows in the „Menu Operation“ window to select the menu item „System Setting“. It is now marked with a diamond. Confirm your selection by clicking on „Enter“.
Use the up/down arrows to select a sub-menu item. Use “Enter” to confirm your selection.
Use the left/right arrows to changes the values (if available).

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| System Information | Address | |
| | BR | Baudrate |
| | Parity | |
| | Version | |
| | Camera Version | |
| | Back, Exit | |
| Address Information | Address Type | Select between „Hard“ and „Soft“ |
| | Address Hard | Address for Dip-switches; cannot be edited by the software (OSD menu). |
| | Address Soft | Address can be edited by the software (OSD menu. |
| | Save | |
| | Back, Exit | |
| Set North | OK | Set a dome benchmark direction to that you can know the angle between the benchmark and the current location. Click “Enter” to see “OK”. Now you have set the north direction. |
| Language | Englisch | No other language available at the moment. |
| Video Output | HD, SD | *See next page „Importante note“* |
| Factory Default | | Restore to factory default settings. |
| Restart | | Restart/Reboot the camera |
| Back, Exit | | |

**Important note on menu item "Video Output: HD/SD":**

It is possible to change the video output from HD-CVI (item “HD” in the OSD menu) to 960H CVBS (analogue) (item “SD” in the OSD menu). If you do so, please note the following:

When changing the video output of this HD-CVI dome from “HD“ to “SD“, the dome will behave like a SD dome, thus an analogue dome. In general, analogue domes can neither be controlled via a coax link nor by a connected recorder; instead they can only be controlled via the RS-485 connection. This means that you have to connect an external RS-485 device to the RS-485 port of the dome, e.g. a control keyboard, in order to change the dome’s parameters. Access to the OSD menu is only possible via the external RS-485 device. If there is no external RS-485 device connected to the dome, you cannot reset the video output from „SD“ to „HD“ because this would require access to the OSD menu.

For this reason, the video output should only be changed to SD (and thus to analogue) if absolutely required and if an external RS-485 devices is connected because otherwise you will neither have access to the dome, nor access to the OSD menu and no way of resetting to the dome to “HD”.

### 3.2.2 Display Setting

Use the up/down arrows in the „Menu Operation“ window to select the menu item „Display Setting“. It is now marked with a diamond. Confirm your selection by clicking on „Enter“.
Use the up/down arrows to select a sub-menu item. Use “Enter” to confirm your selection.
Use the left/right arrows to changes the values (if available).

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| Preset Title | On, Off | Display the preset title<br>(preset settings see chapter 3.2.4) |
| Azimuth Display | On, Off | Display the coordinates (x/y axis) into the video image |
| Position | On, Off | Display the angle between the benchmark and the current location. |
| Zoom Display | On, Off | |
| Inside Temperature | Off, °C, °F | |
| Alarm Display | On, Off | |
| Pattern Display | On, Off | |
| Back, Exit | | |

### 3.2.3 Camera Setting

Use the up/down arrows in the „Menu Operation“ window to select the menu item „Camera Setting“. It is now marked with a diamond. Confirm your selection by clicking on „Enter“.
Use the up/down arrows to select a sub-menu item. Use “Enter” to confirm your selection.
Use the left/right arrows to changes the values (if available).

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| WB Setting | WB Mode | White balance settings:<br>Auto, Manual, ATW, Outdoor, Indoor, Outdoor Auto, NA Lamp/NA Lamp Auto (only for externally added illuminators) |
| | R Gain | Only available if „WB Mode“ is set to„Manual“ |
| | B Gain | |
| | Back, Exit | |
| Exposure Setting | AE Mode | Auto exposure settings:<br>Auto, Manual, Iris Prio, Shutter Prio, |
| | Gain Setting | 1-16 |
| | Shutter | Shutter:<br>1/3, 1/6, 1/12, 1/25, 1/50, 1/75, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000, 1/30000 |
| | Iris Setting | 1-18 |
| | Exposure Compensation | 1-15 |
| | BLC | Backlight compensation on/off |
| | *(Next Page)* | |
| | Slow Shutter | Lower the camera auto exposure time. Especially for lower illumination environment. |
| | Slow Shutter Limit | 1/1, 1/2, 1/3, 1/6, 1/12, 1/25 |
| | AGC Gain Limit | 1-3 |
| | NR | Noise reduction:<br>Off, 1-16 |
| | Camera 3D NR | CKamera 3D noise reduction:<br>Off, 1-16 |
| | High Light Reduce | High light reduction:<br>Off, 1-4 |
| | *(Next Page)* | |
| | AE Recovery | Off, 1 hour, 2 hours, 5 min, 15 min, 30 min |
| | WDR Setting | WDR Mode (Wide Dynamic Range): On, Off |
| | Back, Exit | |

(continue on next page)

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| Day/Night Setting | Day/Night | Day/night switching:<br>Auto, Night, Day |
| | Type | Mechanism, Electron. |
| | Threshold | Switching the day/night mode according to the here defined threshold: 1-8 |
| | Back, Exit | |
| Focus Setting | Focus Mode | Setting the focus:<br>Auto, Semiauto, Manual |
| | Focus Limit | Threshold for focus:<br>Auto, 10cm, 1m, 2m, 3m, 5m |
| | AF Sensitivity | Auto focus sensitivity<br>Low, Mid, High |
| | IR Correction | IR correction<br>Off, On, Auto |
| | Back, Exit | |
| Image Adjust | Hue | 0-100 |
| | Brightness | 0-100 |
| | Saturation | 0-100 |
| | Chroma Suppress | 1-4 |
| | Gamma | 1-16 |
| | Contrast | 1-100 |
| | Style | Standard, Soft, Natural |
| | Back, Exit | |
| Zoom Speed | 1-8 | Zoom speed can also be set in PTZ control menu (see chapter 2) |
| *(Next Page)* | | |
| Aperture | 1-16 | |
| Aperture Restrain | 1-16 | Reduce the aperture to lower the video noise if in low illumination environment. |
| Digital Zoom | Off, On | |
| Picture Flip | Off, On | Picture flip by 180° |
| Lens Initialisation | OK | |
| Picture Mode | 1080P/25, 1080P/30, 720P/25, 720P/30, 720P/50, 720P/60 | Resolution/frae rate |
| *(Next Page)* | | |
| Camera Factory Default | | Reset the camera to factory default settings |
| Camera Restart | | Restart/reboot the camera |
| Back, Exit | | |

### 3.2.4 Function Setting

Use the up/down arrows in the „Menu Operation“ window to select the menu item „Function Setting“. It is now marked with a diamond. Confirm your selection by clicking on „Enter“.
Use the up/down arrows to select a sub-menu item. Use “Enter” to confirm your selection.
Use the left/right arrows to changes the values (if available).

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| Preset | Preset No. | 1-300 |
| | Title | Preset title (name) is automatically assigned and is identical with the preset number, e.g. title=Preset25 (cannot be edited) |
| | Setting | Setting a preset:<br>• Go to the PTZ control menus and move the camera in the desired direction for the preset.<br>• Go to the preset menu. Define a preset number. The preset title will be assigned automatically (see above).<br>• Go to „Setting“ and confirm with „Enter”. “OK” pops up briefly. The preset is now set. |
| | Call | Go to „Call“ and confirm with „Enter“ to call-up the preset.<br>Alternatively: Open the PTZ control menu to call-up the preset (see chapter 2). |
| | Back, Exit | |

(continue on next page)

Special presets for using PELCO protocol:
If you control the dome camera via an external control device (e.g. KSC-3505) using the RS-485 connection and if you use the PELCO protocol, the following special preset commands apply:

- Call preset:
  - Preset 28 or 95: Call-up the OSD menu.
  - Preset 29 or 99: Call-up the scan function.
  - Preset 24 or 81: Call-up the pattern function.
  - Preset 25 or 82: Call-up the tour function.
  - Preset 30 or 96: Stop scan or pattern.
  - Preset 31 or 83: Start dome rotation.
  - Preset 33: Start 180° dome rotation.
  - Preset 34: Set dome position as zero.
- Set preset::
  - Preset 26 or 92: Set left scan limit.
  - Preset 27 or 93: Set right scan limit.
  - Preset 22 or 79: Start record.
  - Preset 23 or 80: Stop record.

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| Auto Pan | Pan Speed | Pan speed: 1-8<br>Alternatively, set the speed using the PTZ contorl menu (see chapter 2). |
| | Run | Manual start: The dome begins 360° continuous rotation. |
| | Stop | Manual stop: The dome stops 360° continuous rotation. |
| | Back, Exit | |
| Auto Scan | Auto Scan No. | 1-5 |
| | Set Left Limit | Limit the left scan area range:<br>• Go to the PTZ control menu and move the dome to the position of the left limit.<br>• Go to the auto scan menu. Define a scan number (see above).<br>• Go to „Set Left Limit“ and confirm with „Enter“. “OK” pops-up briefly. The left limit is now set. |
| | Set Right Limit | Limit the righ scan area range:<br>• Go to the PTZ control menu and move the dome to the position of the righ limit.<br>• Go to the auto scan menu.<br>• Go to „Set Right Limit“ and confirm with „Enter“. “OK” pops-up briefly. The right limit is now set. |
| | Scan Speed | Scan speed: 1-5 |
| | Call | Manual start: The dome rotates in the defined limits. |
| | Stop | Manual stop: The dome stops rotating in the defined limits. |
| | Back, Exit | |
| Tour | Tour No. | Tour number 1-8 |
| | Setting | For each tour, presets, dwell time and speed can be defined.<br>NO PRESET DWELL SPEED<br>01 000 005 013<br>02 000 005 013<br>03 000 005 013<br>… … … …<br>32 000 005 013<br>BACK EXIT |
| | Delete | Delete the selected tour. „OK“ pops-up briefly. |
| | Call | Start the selected tour manually. |
| | Stop | Stop the selected tour manually. |
| | Back, Exit | |

(continue on next page)

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| Pattern | Pattern No. | Pattern number 1-5 |
| | Program Start | Define a start point. |
| | Program Stop | Define a stop point. |
| | Call | Start the selected pattern manually. |
| | Stop | Stop the selected pattern manually. |
| | Back, Exit | |
| Idle Motion | Idle Function | If the dome is idle for a defined period of time, you can define the action type it is to perform (on, off). |
| | Idle Time | Period of idle time. 1-720 minutes |
| | Idle Action | Type of action the dome is to perform after the defined time has elapsed:<br>None, preset, pattern, tour, scan |
| | Parameter | Select the number for preset/pattern/tour/scan. |
| | Back, Exit | |
| *(Next Page)* | | |
| Privacy Masking | Privacy No. | Privacy masking zones 1-24. These areas are covered/hidden in the video image. When the dome moves, the masked areas/objects continue to be masked. |
| | Activate | Enable/disable the privacy zone (On, Off). |
| | Setting | Move the dome to the desired position. The object/area which you would like to mask should be positioned in the center of the video image because the privacy zone will be positioned in the center of the image, too. The position of the privacy zone cannot be changed later but only its size.<br>• Go to the „Privacy Masking“ menu and then on „Setting“ and „Resize“.<br>• „Resize“: Adjust the size of the privacy zone:<br>← Reduce the width of the privacy zone<br>→ Enlarge the width of the privacy zone<br>↑ Enlarge the height of the privacy zone<br>↓ Reduce the height of the privacy zone<br>• After you have selected one of the adjustment arrows, click on the „Enter“ button several times until the zone has reached the desired size.<br>• Go to „Save“.<br>• For „Activate“, please select „On“. The privacy zone is now displayed in the video image.<br>Privacy zones cannot be deleted but only be enabled (shown) or disabled (hidden) and they can be resized (see above). |
| | Back, Exit | |

(continue on next page)

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| PTZ Speed | 1-3 | |
| Set Zero | OK | Move the dome to the horizontal coordinates. |
| Power Up | Power Up | Define the PTZ action the dome has to assume when it is booted:<br>None, auto, preset, pattern, tour, scan |
| | Parameter | Select the number for prreset/pattern/tour/scan. |
| | Back, Exit | |
| Menu Password | Password | Define whether the OSD menu is to be protected by a password (On, Off). |
| | Setting | Set the password for accessing the OSD menu and then „Save“ it. Password protection is then active (“On”). (see above).<br>Note:<br>If an invalid password is entered three times, the system shows an 8-digit internal code. Please contact the technical engineer for help. |
| | Back, Exit | |
| Menu Idle | Off, 1 min., 2 min.,<br>3 min., 4 min., 5 min. | If you set a time here, the OSD menu will disappear once this time has elapsed. If you select “Off”, the OSD menu will be displayed at all times. If you wish to close/hide theOSD menu, click on “Enter” or “Exit” (see below). |
| *(Next Page)* | | |
| PTZ Auto Stop | 5/10/15/20/25/30 sec,<br>Off | The dome will stop all PTZ operations when there is no command for the specified time. |
| PTZ Correction | On, Off | |
| Back, Exit | | |

### 3.2.5 Alarm Setting

Use the up/down arrows in the „Menu Operation“ window to select the menu item „Alarm Setting“. It is now marked with a diamond. Confirm your selection by clicking on „Enter“.
Use the up/down arrows to select a sub-menu item. Use “Enter” to confirm your selection.
Use the left/right arrows to changes the values (if available).

| Menu item | Sub-menu item | Additional items / Remarks |
|---|---|---|
| Alarm No. | 1-2 | Alarm number1 or 2. |
| Action | None, Preset, Tour, Scan | Action the dome has to perform if an alarm occurs. |
| Parameter | | Select the number of preset/tour/scan aus. |
| Contact | N/O, N/C | Normal Open, Normal Close |
| Relay Out | Off, 1-5 sec. | Relay 1 will be active for 5 seconds after an alarm occurs. |
| Reset Delay | 3/10/30/60/120 sec. | The other alarm contacts will be active for the specified time. |
| Save | | Speichern |

### 3.2.6 Exit

Use the up/down arrows in the „Menu Operation“ window to select the menu item „Exit“. It is now marked with a diamond. Confirm your selection by clicking on „Enter“.
The OSD menu is now closed.

## 3.3 Additional PTZ functions using the PTZ control menu

In the PTZ control menu, the following additional PTZ functions are available:

| Symbol | Function | Symbol | Function |
|---|---|---|---|
| | Preset | | Flip |
| | Tour | | Reset |
| | Pattern | | Aux config. |
| | Autoscan | | Aux on/off |
| | Autopan | | Enter menu |

Click on the symbols (e.g. autoscan) to execute this command (it has to be defined accordingly). Please read the respective sections in chapter 3.2.4.

Further explanations on „Aux config.“ and „Aux on/off“ are available in the following chapters.

### 3.3.1 Aux configuration

Note:
The following settings can also be made by using the OSD menu (see chapter 3.2.4).

Click on the “Aux config.” symbol.
The following window is displayed:

**Preset:**

- For preset settings, use the direction arrows to move the dome camera into the desired position.
- Enter a preset number.
- Save the settings by clicking on „Set“.
- Use “Del preset“ to delete a preset.

**Tour:**

- For tour settings, use the direction arrows to move the dome camera into the desired position.
- Enter a preset number for this tour.
- Save the settings by clicking on „Add preset“.
- Use „Del preset“ or „Del tour“ to delete a preset or tour.

**Pattern:**

- For pattern settings, use the direction arrows to move the dome camera into the desired position.
- Enter a pattern number.
- Click on „Begin“ or „End“.

**Border:**

Use the direction arrows to position the camera within its left and right borders.

### 3.3.2 Aux on/off

Click on the aux symbol.
The follow window is displayed:

The settings defined here depend on the selected protocol. “Direct aux” represent the aux on/off button of a decoder.

## Notes:

Your local distributor: